

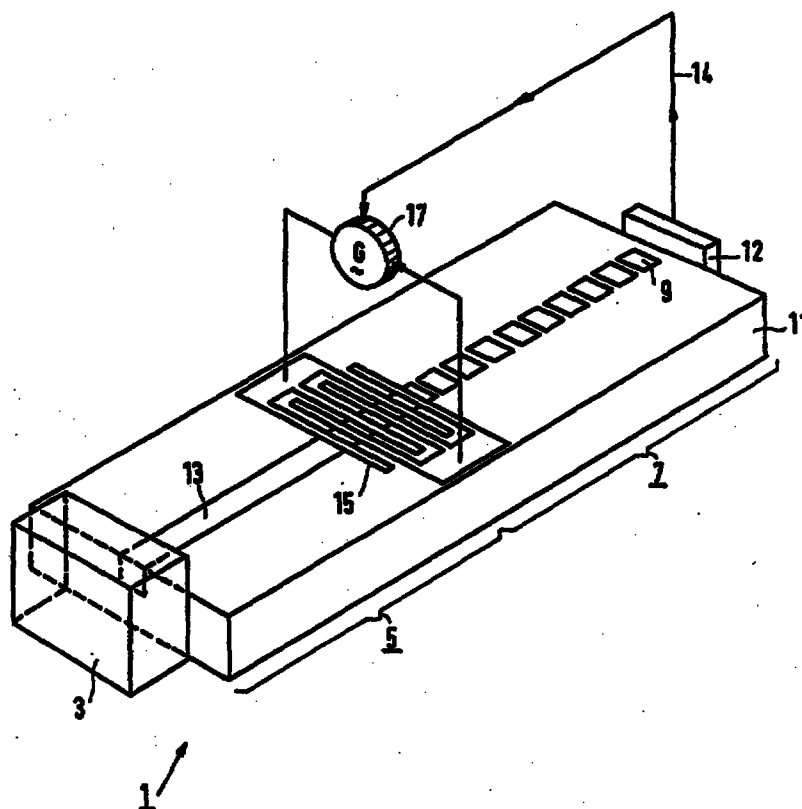


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(54) Title: DEVICE FOR RAISING THE FREQUENCY OF ELECTROMAGNETIC RADIATION**(57) Abstract**

Device (1) for raising the frequency of electromagnetic radiation. The device (1) comprises a diode laser (3) for generating the radiation, and a non-linear optical medium (11) in which a first optical waveguide (9) is arranged for guiding a fundamental wave of the diode laser radiation while forming a higher harmonic wave. Moreover, the device (1) comprises a wavelength stabilizer (5) for stabilizing the wavelength of the fundamental wave. The wavelength stabilizer (5) is constituted by a second optical waveguide (13) with a refractive index grating extending in its longitudinal direction and whose selection wavelength is electrically controllable by means of an electrode structure (15; 29).



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